

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/750,939E  
Source: 1 FWO  
Date Processed by STIC: 12/28/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/750,939E

TIME: 21:29:23

Input Set : A:\niles non-provisional-US corrected 12-16-04.txt

Output Set: N:\CRF4\12282004\J750939E.raw

```

3 <110> APPLICANT: Niles, Edward
5 <120> TITLE OF INVENTION: Novel Inhibitors of Poxvirus Replication
7 <130> FILE REFERENCE: 11520.0333
9 <140> CURRENT APPLICATION NUMBER: US 10/750,939E
10 <141> CURRENT FILING DATE: 2004-01-02
12 <150> PRIOR APPLICATION NUMBER: US/60/437,945
13 <151> PRIOR FILING DATE: 2003-01-02
15 <160> NUMBER OF SEQ ID NOS: 20
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 7
19 <212> TYPE: RNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <221> NAME/KEY: unsure
24 <222> LOCATION: 6
25 <223> OTHER INFORMATION: pox virus; n is g,a,u or c
27 <400> SEQUENCE: 1
W--> 28 uuuuuuu 7
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 7
32 <212> TYPE: DNA
33 <213> ORGANISM: artificial sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: nascent pox virus termination signal
38 <400> SEQUENCE: 2
39 ttttttt 7
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 22
44 <212> TYPE: RNA
45 <213> ORGANISM: artificial sequence
47 <220> FEATURE:
48 <221> NAME/KEY: unsure
49 <222> LOCATION: 14
50 <223> OTHER INFORMATION: U5NU-22-mer oligo; n is g,a,u or c
52 <400> SEQUENCE: 3
W--> 53 gggccggcguu uuuuuuugcg uu 22
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 22
58 <212> TYPE: RNA
59 <213> ORGANISM: artificial sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: mutant- 22-mer oligo
64 <400> SEQUENCE: 4

```

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```

65 gggccggcaa uuauuauugcg uu 22
68 <210> SEQ ID NO: 5
69 <211> LENGTH: 36
70 <212> TYPE: RNA
71 <213> ORGANISM: artificial sequence
73 <220> FEATURE:
74 <221> NAME/KEY: unsure
75 <222> LOCATION: 23
76 <223> OTHER INFORMATION: pGEM-U5NU-36-mer oligo n is g,a,u or c
78 <400> SEQUENCE: 5
W--> 79 gggcgaaauug ggccggcuuu uuuuuugcgu ugaauu 36
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 36
84 <212> TYPE: RNA
85 <213> ORGANISM: artificial sequence
87 <220> FEATURE:
W--> 88 <221> NAME/KEY:
89 <222> LOCATION:
90 <223> OTHER INFORMATION: pGEM-Br-U5NU-36-mer; uracils at 8,9,18-26, 30, 31, 35 and
91 36 are brominated
93 <400> SEQUENCE: 6
94 gggcgaaauug ggccggcuuu uuuuuugcgu ugaauu 36
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 27
98 <212> TYPE: DNA
99 <213> ORGANISM: artificial sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: transcription template plasmid oilgo
104 <400> SEQUENCE: 7
105 aattgggccg gctttttttt tgcgttg 27
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 22
110 <212> TYPE: DNA
111 <213> ORGANISM: artificial sequence
113 <220> FEATURE:
W--> 114 <221> NAME/KEY:
115 <222> LOCATION:
116 <223> OTHER INFORMATION: dU5NdU oligo; 9-17 is deoxyuracil
118 <400> SEQUENCE: 8
119 gggccggcuu uuuuuuugcg uu 22
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 22
124 <212> TYPE: RNA
125 <213> ORGANISM: artificial sequence
127 <220> FEATURE:
W--> 128 <221> NAME/KEY:
129 <222> LOCATION:
130 <223> OTHER INFORMATION: BrdU5NdU oligo; 9-17 is brominated deoxyuracil
132 <400> SEQUENCE: 9

```

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133 gggccggcguu uuuuuuugcg uu 22

135 &lt;210&gt; SEQ ID NO: 10

136 &lt;211&gt; LENGTH: 22

137 &lt;212&gt; TYPE: DNA

138 &lt;213&gt; ORGANISM: artificial sequence

140 &lt;220&gt; FEATURE:

W--&gt; 141 &lt;221&gt; NAME/KEY:

142 &lt;222&gt; LOCATION:

143 &lt;223&gt; OTHER INFORMATION: T5NT

145 &lt;400&gt; SEQUENCE: 10

146 gggccggcgtt tttttttgcg uu 22

149 &lt;210&gt; SEQ ID NO: 11

150 &lt;211&gt; LENGTH: 22

151 &lt;212&gt; TYPE: DNA

152 &lt;213&gt; ORGANISM: artificial sequence

154 &lt;220&gt; FEATURE:

W--&gt; 155 &lt;221&gt; NAME/KEY:

156 &lt;222&gt; LOCATION:

157 &lt;223&gt; OTHER INFORMATION: mutant T5NT

159 &lt;400&gt; SEQUENCE: 11

160 gggccggcaa ttattatgcg tt 22

162 &lt;210&gt; SEQ ID NO: 12

163 &lt;211&gt; LENGTH: 17

164 &lt;212&gt; TYPE: RNA

165 &lt;213&gt; ORGANISM: artificial sequence

167 &lt;220&gt; FEATURE:

168 &lt;221&gt; NAME/KEY: unsure

169 &lt;222&gt; LOCATION: 10

170 &lt;223&gt; OTHER INFORMATION: U5NU 17-mer oligo; n is a,g,u or c

172 &lt;400&gt; SEQUENCE: 12

W--&gt; 173 cggcuuuuun uuugcgu 17

175 &lt;210&gt; SEQ ID NO: 13

176 &lt;211&gt; LENGTH: 13

177 &lt;212&gt; TYPE: RNA

178 &lt;213&gt; ORGANISM: artificial sequence

180 &lt;220&gt; FEATURE:

181 &lt;221&gt; NAME/KEY: unsure

182 &lt;222&gt; LOCATION: 8

183 &lt;223&gt; OTHER INFORMATION: U5NU-13-mer oligo; n is a,g, u or c

185 &lt;400&gt; SEQUENCE: 13

W--&gt; 186 gcuuuuunuu ugc 13

189 &lt;210&gt; SEQ ID NO: 14

190 &lt;211&gt; LENGTH: 9

191 &lt;212&gt; TYPE: RNA

192 &lt;213&gt; ORGANISM: artificial sequence

194 &lt;220&gt; FEATURE:

195 &lt;221&gt; NAME/KEY: unsure

196 &lt;222&gt; LOCATION: 6

197 &lt;223&gt; OTHER INFORMATION: U5NU-9-mer oligo; n is a,g,u or c

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TIME: 21:29:23

Input Set : A:\niles non-provisional-US corrected 12-16-04.txt

Output Set: N:\CRF4\12282004\J750939E.raw

```

199 <400> SEQUENCE: 14
W--> 200 uuuuuuuuu 9
203 <210> SEQ ID NO: 15
204 <211> LENGTH: 7
205 <212> TYPE: RNA
206 <213> ORGANISM: artificial sequence
208 <220> FEATURE:
209 <221> NAME/KEY: unsure
210 <222> LOCATION: 6
211 <223> OTHER INFORMATION: U5NU-7-mer oligo; n is a,g,u or c
213 <400> SEQUENCE: 15
W--> 214 uuuuuuu 7
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 7
219 <212> TYPE: RNA
220 <213> ORGANISM: artificial sequence
222 <220> FEATURE:
W--> 223 <221> NAME/KEY:
224 <222> LOCATION:
225 <223> OTHER INFORMATION: mutant 7-mer
227 <400> SEQUENCE: 16
228 uuuuuau 7
230 <210> SEQ ID NO: 17
231 <211> LENGTH: 22
232 <212> TYPE: DNA
233 <213> ORGANISM: artificial sequence
235 <220> FEATURE:
236 <221> NAME/KEY: unsure
237 <222> LOCATION: 14
238 <223> OTHER INFORMATION: DNA-U9-DNA oligo; n is g,a,u or c; 1-8 and 18-22 are DNA
240 <400> SEQUENCE: 17
W--> 241 gggccggcguu uuunuuugcg uu 22
243 <210> SEQ ID NO: 18
244 <211> LENGTH: 22
245 <212> TYPE: RNA
246 <213> ORGANISM: artificial sequence
248 <220> FEATURE:
249 <221> NAME/KEY: unsure
250 <222> LOCATION: 14
251 <223> OTHER INFORMATION: 2-prime-O-Me-RNA-PT-U9-2-prime-O-Me-PT-RNA oligo; n is g,a,u
or c; 1-8
252 and 18-22 are 2-prime-O methylated; 1-8 and 17-22 have phoshporthiol bonds
254 <400> SEQUENCE: 18
W--> 255 gggccggcguu uuunuuugcg uu 22
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 22
259 <212> TYPE: DNA
260 <213> ORGANISM: artificial sequence
262 <220> FEATURE:
263 <221> NAME/KEY: unsure

```

## RAW SEQUENCE LISTING

DATE: 12/28/2004

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Input Set : A:\niles non-provisional-US corrected 12-16-04.txt

Output Set: N:\CRF4\12282004\J750939E.raw

```
264 <222> LOCATION: 14
265 <223> OTHER INFORMATION: PT-DNA-U9-PT-DNA oligo; n is g,a,u or c; 1-8 and 18-22
266     are phosphorthiols; 9-17 are RNA
268 <400> SEQUENCE: 19
--> 269 gggccggcuu uuunuuugcg uu  22
271 <210> SEQ ID NO: 20
272 <211> LENGTH: 7
273 <212> TYPE: RNA
274 <213> ORGANISM: artificial sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: U5AU oligo
279 <400> SEQUENCE: 20
280 uuuuauu  7
```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 12/28/2004  
PATENT APPLICATION:    US/10/750,939E      TIME: 21:29:24

Input Set : A:\niles non-provisional-US corrected 12-16-04.txt  
Output Set: N:\CRF4\12282004\J750939E.raw

Please Note:

se of n and/or Xaa have been detected in the Sequence Listing. Please review the  
equence Listing to ensure that a corresponding explanation is presented in the <220>  
o <223> fields of each sequence which presents at least one n or Xaa.

eq#:1; N Pos. 6  
eq#:3; N Pos. 14  
eq#:5; N Pos. 23  
eq#:12; N Pos. 10  
eq#:13; N Pos. 8  
eq#:14; N Pos. 6  
eq#:15; N Pos. 6  
eq#:17; N Pos. 14  
eq#:18; N Pos. 14  
eq#:19; N Pos. 14

## VERIFICATION SUMMARY

DATE: 12/28/2004

PATENT APPLICATION: US/10/750,939E

TIME: 21:29:24

Input Set : A:\niles non-provisional-US corrected 12-16-04.txt

Output Set: N:\CRF4\12282004\J750939E.raw

L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:88 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6  
L:114 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8  
L:128 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9  
L:141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10  
L:155 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:223 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0